#16

Expendable UAV ACTD



Objectives

- Expendable surveillance for Special Operations and Personnel Recovery, Surveillance, BDA
- Low cost (<\$10k per air vehicle)
- Recoverable for Training/Expendable for OPS
- Autonomous/Semi-Autonomous GPS Waypoint Navigation
- 2hr Endurance, 20 nmi Range, Alt: 200-3000ft, Video Data Link, remote command guidance
- Evaluate Air, Land, Ship, deployment

Participants

- SOCCOM/JSOC, SOUTHCOM,OSD SOLIC, Office of Naval Research, Navy Force Protection, Army Battle Lab, Navy SPECWAR, USCG
- Technical Lead Chyau N. Shen

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FY-02: System Design

Integration / Test

Flight Testing Prototype Unit

FY-03: UAV Fabrication / OP Eval

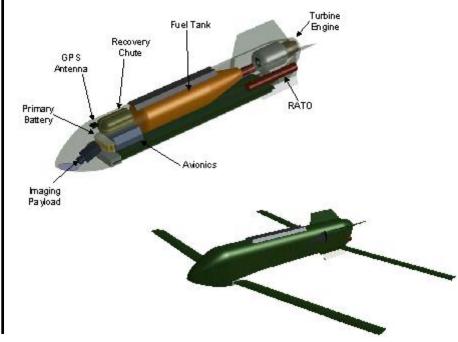
Utility Assessment SOCOM

FY-04/05: Residual

Technology

- Low Cost composite Airframe
- Autonomous GPS autopilot
- SENSORS
 - •E/O,IR, Chemical,WMD
- High End Commercial RC Components
- Maximize COTS technology
- Existing orthorectification imagery and map registration S/W

Residuals: 4 UAV aircraft / leave behind with 2 ground stations and S/W



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